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SEPTEMBER 10, 2001

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101768994A

BRAD J. HATTENBACH
CHERYL ARNOLD FERNE
REPUBLIC PLAZA BUILDING
370 SEVENTEENTH STREET
DENVER, CO 80202

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/27/2001

REEL/FRAME: 011939/0666
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

NEUHAUS, HERBERT J.

DOC DATE: 06/12/2001

ASSIGNEE:

NANOPIERCE TECHNOLOGIES, INC.
370 SEVENTEENTH STREET
DENVER, COLORADO 80202

SERIAL NUMBER: 09812140
PATENT NUMBER:

FILING DATE: 03/19/2001
ISSUE DATE:

TONYA LEE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

07-06-2001

Docket No.: 5740.02

FORM PT-1595 (Modified)
(Rev. 6-93)
OMB No. 0651-0011 (exp. 4/94)
Copyright 1994-97 LegalStar
POS/REV02



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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

101768994

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Herbert J. Neuhaus

6-27-01



Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other _____Execution Date: June 12, 2001

2. Name and address of receiving party(ies):

Name: Nanopierce Technologies, Inc.Internal Address: Suite 3580Street Address: 370 Seventeenth StreetCity: Denver State: CO ZIP: 80202Additional name(s) & address(es) attached? ☒ Yes ☐ No

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

B. Patent No.(s)

09/812,140
filed March 19,
2001

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Brad J. HattenbachInternal Address: Suite 4700Republic Plaza BuildingStreet Address: 370 Seventeenth StreetCity: Denver State: CO ZIP: 80202

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ 40.00☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☐ Authorized to be charged to deposit account

8. Deposit account number:

04-1415

07/05/2001 LMUELLER 00000122 09812140

DO NOT USE THIS SPACE

01 FC:581

40.00 0P

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Cheryl Arnold Ferne

Name of Person Signing

Cheryl Arnold Ferne 6/27/01

Signature

Date

Total number of pages including cover sheet, attachments, and document: 4

ASSIGNMENT

WHEREAS, **HERBERT J. NEUHAUS**, residing at 770 Maroonglen Court, Colorado Springs, Colorado (the "Assignor"), has invented certain new and useful systems, devices, and methods disclosed and described in an application for Letters Patent in the United States ("U.S.") entitled "ELECTRICAL COMPONENT ASSEMBLY AND METHOD OF FABRICATION," which can be identified in the United States Patent and Trademark Office ("USPTO") under Serial Number 09/812,140, filed on 19 March 2001, (the "Patent Application"), and which claims priority to a provisional application in the U.S. entitled "ADVANCES IN MATERIALS FOR LOW COST FLIP-CHIP," Serial No. 60/220,027, filed on 21 July 2000 (the "Provisional Application") and to a nonprovisional application in the U.S. entitled "ELECTRICAL COMPONENT ASSEMBLY AND METHOD OF FABRICATION," Serial No. 09/684,238, filed on 5 October 2000 (the "Prior Application"); and

WHEREAS, **NANOPIERCE TECHNOLOGIES, INC.**, a corporation organized and existing under the laws of the State of Nevada, and having its principal place of business at 370 Seventeenth Street, Suite 3580, Denver, Colorado 80202 (the "Assignee"), desires to acquire the entire right, title, and interest of Assignor in and to the invention, the Patent Application, the Provisional Application, the Prior Application and in, to and under any and all Letters Patent to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor does sell, assign, and transfer to the Assignee, its successors, legal representatives, and assigns, the entire right, title and interest in and to the invention, the Patent Application, the Provisional Application, the Prior Application, and all divisional, continuation, continuation-in-part, continuing prosecution, and reissue applications; the Letters Patent, both foreign and domestic, that may or shall issue, or may or shall have issued, therefrom; any extensions or renewals thereof; and any right, title, or interest in and to the invention under any international conventions (collectively "the Patent Rights"); and the Assignor hereby authorizes and requests transfer and delivery of the Patent Application, the Provisional Application, the Prior Application, and any further applications, which may be or shall have been filed under the Patent Rights, to the Assignee in accordance herewith.

Assignor further authorizes said Assignee, its successors, and assigns, or anyone it may properly designate, to apply for Letters Patent in the U.S. and any and all foreign countries, in its own name if desired, and additionally to claim priority to the filing dates of the Patent Application, the Provisional Application, and the Prior Application, and otherwise take advantage of the provisions of any international conventions.

Assignor hereby authorizes Assignee, its successors and assigns, or anyone it may properly designate, to insert in this instrument the application number and filing date of the Patent Application once known.

Assignor further covenants and agrees that this Assignment is effective as of 21 July 2000.

Assignor represents and warrants that Assignor has the right, title, and authority to execute this Assignment and to convey all right, title, and interest in the Patent Rights, and that Assignor has not conveyed nor will convey hereafter all or part of the Patent Rights to a third party; and Assignor hereby covenants and agrees with the Assignee, its successors and assigns, that Assignor will not execute in writing or do any act whatsoever conflicting with these representations, and that Assignor, Assignor's successors, legal representatives, or administrators will at any time upon request, without further or additional consideration, but at the expense of the Assignee, its successors, and assigns, execute such additional writings and do such additional acts as said Assignee, its successors, and assigns, may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for, obtaining, and enforcing any of the Patent Rights, including giving testimony in any proceedings or transactions involving such Patent Rights.

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.

STATE OF)
CITY OF) ss.
COUNTY OF)

By: Herbert J. Neuhaus
Herbert J. Neuhaus

Dated: 12 June 2001

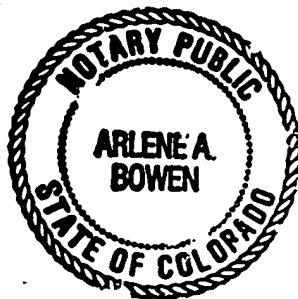
Before me, a Notary Public in and for said County and State, personally appeared HERBERT J. NEUHAUS, who executed the foregoing instrument for the purposes and considerations therein expressed.

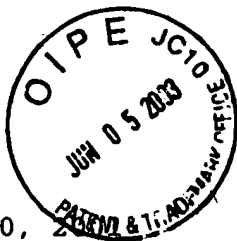
Given under my hand and seal of office this 12th day of June, 2001.

Arlene A. Bowen
Notary Public

My Commission Expires Aug. 6, 2003

My Commission Expires: _____





UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

SEPTEMBER 10, 2003

PTAS



101768992A

BRAD J. HATTENBACH
REPUBLIC PLAZA BUILDING
3700 SEVENTEENTH STREET
SUITE 4700
DENVER, CO 80202

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/27/2001

REEL/FRAME: 011940/0696
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
KENNEY, MICHAEL J.

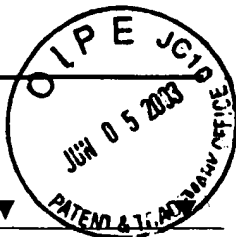
DOC DATE: 06/20/2001

ASSIGNEE:
NANOPIERCE TECHNOLOGIES, INC.
370 SEVENTEENTH STREET
SUITE 3580
DENVER, COLORADO 80202

SERIAL NUMBER: 09812140
PATENT NUMBER:

FILING DATE: 03/19/2001
ISSUE DATE:

ANTIONE ROYALL, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



07-06-2001



101768992

Docket No.: 5740.02

ET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Michael J. Kenney

4-27-01

Additional names(s) of conveying party(ies) ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

Execution Date: June 20, 2001

2. Name and address of receiving party(ies):

Name: Nanopierce Technologies, Inc.

Internal Address: Suite 3580

Street Address: 370 Seventeenth Street

City: Denver State: CO ZIP: 80202

Additional name(s) & address(es) attached? ☒ Yes ☐ No

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

09/812,140
filed March 19,
2001

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Brad J. Hattenbach

Internal Address: Suite 4700

Republic Plaza Building

Street Address: 370 Seventeenth Street

City: Denver State: CO ZIP: 80202

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ 40.00

☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account

☐ Authorized to be charged to deposit account

8. Deposit account number:

04-1415

07/05/2001 LMUELLER 00000123 09812140

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40.00 US

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Cheryl Arnold Ferne

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document:

4

ASSIGNMENT

WHEREAS, **MICHAEL J. KENNEY**, residing at the address indicated below (the "Assignor"), has invented certain new and useful systems, devices, and methods disclosed and described in an application for Letters Patent in the United States ("U.S.") entitled "ELECTRICAL COMPONENT ASSEMBLY AND METHOD OF FABRICATION," which can be identified in the United States Patent and Trademark Office ("USPTO") under Serial Number 09/812,140, filed on 19 March 2001, (the "Patent Application"), and to a nonprovisional application in the U.S. entitled "ELECTRICAL COMPONENT ASSEMBLY AND METHOD OF FABRICATION," Serial No. 09/684,238, filed on 5 October 2000 (the "Prior Application"); and

WHEREAS, **NANOPIERCE TECHNOLOGIES, INC.**, a corporation organized and existing under the laws of the State of Nevada, and having its principal place of business at 370 Seventeenth Street, Suite 3580, Denver, Colorado 80202 (the "Assignee"), desires to acquire the entire right, title, and interest of Assignor in and to the invention, the Patent Application, the Prior Application, and in, to and under any and all Letters Patent to be obtained therefore;

NOW, THEREFORE, for the sum of \$1,000.00 and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor does sell, assign, and transfer to the Assignee, its successors, legal representatives, and assigns, the entire right, title and interest in and to the invention, the Patent Application, the Prior Application, and all divisional, continuation, continuation-in-part, continuing prosecution, and reissue applications; the Letters Patent, both foreign and domestic, that may or shall issue, or may or shall have issued, therefrom; any extensions or renewals thereof; and any right, title, or interest in and to the invention under any international conventions (collectively "the Patent Rights"); and the Assignor hereby authorizes and requests transfer and delivery of the Patent Application, the Prior Application and any further applications, which may be or shall have been filed under the Patent Rights, to the Assignee in accordance herewith.

Assignor further authorizes said Assignee, its successors, and assigns, or anyone it may properly designate, to apply for Letters Patent in the U.S. and any and all foreign countries, in its own name if desired, and additionally to claim priority to the filing date of the Patent Application and the Prior Application and otherwise take advantage of the provisions of any international conventions.

Assignor hereby authorizes Assignee, its successors and assigns, or anyone it may properly designate, to insert in this instrument the application number and filing date of the Patent Application once known.

Assignor further covenants and agrees that this Assignment is effective as of 21 July 2000.

Assignor represents and warrants that Assignor has the right, title, and authority to execute this Assignment and to convey all right, title, and interest in the Patent Rights, and that Assignor has not conveyed nor will convey hereafter all or part of the Patent Rights to a third party; and Assignor hereby covenants and agrees with the Assignee, its successors and assigns, that Assignor will not execute in writing or do any act whatsoever conflicting with these representations, and that Assignor, Assignor's successors, legal representatives, or administrators will at any time upon request, without further or additional consideration, but at the expense of the Assignee, its successors, and assigns, execute such additional writings and do such additional acts as said Assignee, its successors, and assigns, may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for, obtaining, and enforcing any of the Patent Rights, including giving testimony in any proceedings or transactions involving such Patent Rights.

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.

STATE OF MN)
CITY OF Anoka) ss.
COUNTY OF Anoka)

By:

Michael J. Kenney
Michael J. Kenney

Address:

749 EAST RIVER RD #100
ANOKA MN 55303

Dated:

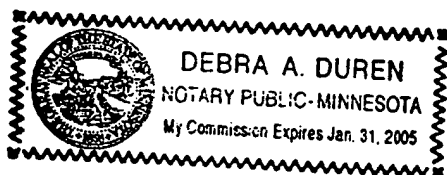
06 20 2001

Before me, a Notary Public in and for said County and State, personally appeared MICHAEL J. KENNEY, who executed the foregoing instrument for the purposes and considerations therein expressed.

Given under my hand and seal of office this 20th day of June, 2001.

Debra A. Duren
Notary Public

My Commission Expires: 1-31-05





UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

SEPTEMBER 14, 2001

PTAS



101843418A

BRAD J. HATTENBACH
SUITE 4700
REPUBLIC PLAZA BUILDING
370 SEVENTEENTH STREET
DENVER, CO 80202

UNITED STATES PATENT AND TRADEMARK OFFICE
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RECORDATION DATE: 06/27/2001

REEL/FRAME: 011954/0271
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
WERNLE, MICHAEL E.

DOC DATE: 06/06/2001

ASSIGNEE:
NANOPIERCE TECHNOLOGIES, INC.
370 SEVENTEENTH STREET
SUITE 3580
DENVER, COLORADO 80202

SERIAL NUMBER: 09812140
PATENT NUMBER:

FILING DATE: 03/19/2001
ISSUE DATE:

DOROTHY BASMA, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

09-13-2001

Docket No.: 5740.02

FCRM PTO-1595 (Modified)
(Rev. 6-93)
OMB No. 0651-0011 (exp. 4/94)
Copyright 1994-97 LegalStar
POS/REV02

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Patent and Trademark Office



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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Michael E. Wernle

L2701



Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Execution Date: June 6, 2001

2. Name and address of receiving party(ies):

Name: Nanopierce Technologies, Inc.

Internal Address: Suite 3580

JUN 27 2001

Street Address: 370 Seventeenth Street

City: Denver State: CO ZIP: 80202

Additional name(s) & address(es) attached? Yes ☐ No

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

09/812,140
filed March 19,
2001

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Brad J. Hattenbach

Internal Address: Suite 4700

Republic Plaza Building

Street Address: 370 Seventeenth Street

City: Denver State: CO ZIP: 80202

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ 40.00

☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☐ Authorized to be charged to deposit account

8. Deposit account number:

04-1415

07/05/2001 LAUELLER 00000124 09812140

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Cheryl Arnold Ferne

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document:

4

ASSIGNMENT

WHEREAS, **MICHAEL E. WERNLE**, residing at Ottobrunner Straffe 76, D/85635, Hohenkirchen, Germany (the "Assignor"), has invented certain new and useful systems, devices, and methods disclosed and described in an application for Letters Patent in the United States ("U.S.") entitled "ELECTRICAL COMPONENT ASSEMBLY AND METHOD OF FABRICATION," which can be identified in the United States Patent and Trademark Office ("USPTO") under Serial Number 09/812,140, filed on 19 March 2001, (the "Patent Application"), and which claims priority to two provisional applications in the U.S. entitled "ADVANCES IN MATERIALS FOR LOW COST FLIP-CHIP," Serial No. 60/220,027, filed on 21 July 2000, and "MANUFACTURING OF LOW COST SMART LABELS," Serial No. 60/233,561, filed 19 September 2000 (the "Provisional Applications"); and

WHEREAS, **NANOPIERCE TECHNOLOGIES, INC.**, a corporation organized and existing under the laws of the State of Nevada, and having its principal place of business at 370 Seventeenth Street, Suite 3580, Denver, Colorado 80202 (the "Assignee"), desires to acquire the entire right, title, and interest of Assignor in and to the invention, the Patent Application, the Provisional Applications, and in, to and under any and all Letters Patent to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor does sell, assign, and transfer to the Assignee, its successors, legal representatives, and assigns, the entire right, title and interest in and to the invention, the Patent Application, the Provisional Applications, and all divisional, continuation, continuation-in-part, continuing prosecution, and reissue applications; the Letters Patent, both foreign and domestic, that may or shall issue, or may or shall have issued, therefrom; any extensions or renewals thereof; and any right, title, or interest in and to the invention under any international conventions (collectively "the Patent Rights"); and the Assignor hereby authorizes and requests transfer and delivery of the Patent Application, the Provisional Applications, and any further applications, which may be or shall have been filed under the Patent Rights, to the Assignee in accordance herewith.

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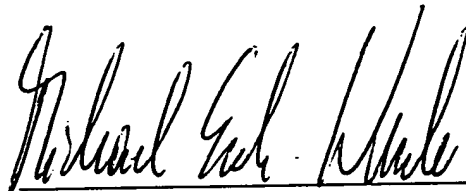
Assignor hereby authorizes Assignee, its successors and assigns, or anyone it may properly designate, to insert in this instrument the application number and filing date of the Patent Application once known.

Assignor further covenants and agrees that this Assignment is effective as of 21 July 2000.

Assignor represents and warrants that Assignor has the right, title, and authority to execute this Assignment and to convey all right, title, and interest in the Patent Rights, and that Assignor has not conveyed nor will convey hereafter all or part of the Patent Rights to a third party; and Assignor hereby covenants and agrees with the Assignee, its successors and assigns, that Assignor will not execute in writing or do any act whatsoever conflicting with these representations, and that Assignor, Assignor's successors, legal representatives, or administrators will at any time upon request, without further or additional consideration, but at the expense of the Assignee, its successors, and assigns, execute such additional writings and do such additional acts as said Assignee, its successors, and assigns, may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for, obtaining, and enforcing any of the Patent Rights, including giving testimony in any proceedings or transactions involving such Patent Rights.

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.

By:



Michael E. Wernle


Dated:

6 June 2001

File No. 5161 2001 K

I hereby certify that the above is the true signature, subscribed in my presence of
Mr. Michael Erich W e r n l e ,
born on 03.05.1962 at Wien/Austria,
residing in D Ottobrunner Str. 76,
85635 Höhenkirchen-Siegertsbrunn,
identified by passport No. G 0166676

Munich, this 6th day of Juni, 2001


Reeh, Notary